

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:43

INPUT SET: S34912.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4 (i) APPLICANT: JOHNSON, L.  
5 (ii) TITLE OF INVENTION: Human Murine Chimeric Antibodies  
6 Against Respiratory Syncytical Virus  
7 (iii) NUMBER OF SEQUENCES: 49  
8 (iv) CORRESPONDENCE ADDRESS:  
9 (A) ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
10 CECCHI,  
11 STEWART & OLSTEIN  
12 (B) STREET: 6 BECKER FARM ROAD  
13 (C) CITY: ROSELAND  
14 (D) STATE: NEW JERSEY  
15 (E) COUNTRY: USA  
16 (F) ZIP: 07068  
17 (v) COMPUTER READABLE FORM:  
18 (A) MEDIUM TYPE: 3.5 INCH DISKETTE  
19 (B) COMPUTER: P160  
20 (C) OPERATING SYSTEM: Windows95  
21 (D) SOFTWARE: MS Word 97  
22 (vi) CURRENT APPLICATION DATA:  
23 (A) APPLICATION NUMBER: 09/158,120  
24 (B) FILING DATE: September 21, 1998  
25 (C) CLASSIFICATION: 424  
26 (vii) PRIOR APPLICATION DATA  
27 (A) APPLICATION NUMBER: 08/290,592  
28 (B) FILING DATE: August 15, 1994  
29 (A) APPLICATION NUMBER: 07/813,372  
30 (B) FILING DATE: December 23, 1991  
31 (viii) ATTORNEY/AGENT INFORMATION:  
32 (A) NAME: Olstein, Elliot M.  
33 (B) REGISTRATION NUMBER: 24,025  
34 (C) REFERENCE/DOCKET NUMBER: 469201-367  
35 (ix) TELECOMMUNICATION INFORMATION:  
36 (A) TELEPHONE: 973-994-1700  
37 (B) TELEFAX: 973-994-1744  
38  
39  
40  
41  
42  
43 (2) INFORMATION FOR SEQ ID NO:1:  
44 (i) SEQUENCE CHARACTERISTICS:  
45 (A) LENGTH: 27 BASE PAIRS  
46 (B) TYPE: NUCLEIC ACID

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:43

INPUT SET: S34912.raw

47 (C) STRANDEDNESS: SINGLE  
48 (D) TOPOLOGY: LINEAR  
49 (ii) MOLECULE TYPE: Oligonucleotide  
50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
51 AGCGGATCCA GGGGCCAGTG GATAGAC  
52  
53 (2) INFORMATION FOR SEQ ID NO:2:  
54 (i) SEQUENCE CHARACTERISTICS:  
55 (A) LENGTH: 17 NUCLEOTIDES  
56 (B) TYPE: NUCLEIC ACID  
57 (C) STRANDEDNESS: SINGLE  
58 (D) TOPOLOGY: LINEAR  
59 (ii) MOLECULE TYPE: Oligonucleotide  
60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
61 TGGATGGTGG GAAGATG 17  
62  
63 (2) INFORMATION FOR SEQ ID NO:3:  
64 (i) SEQUENCE CHARACTERISTICS:  
65 (A) LENGTH: 15 NUCLEOTIDES  
66 (B) TYPE: NUCLEIC ACID  
67 (C) STRANDEDNESS: SINGLE  
68 (D) TOPOLOGY: LINEAR  
69 (ii) MOLECULE TYPE: Oligonucleotide  
70 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
71 GGCCAGTGA TAGAC15  
72  
73 (2) INFORMATION FOR SEQ ID NO:4:  
74 (i) SEQUENCE CHARACTERISTICS:  
75 (A) LENGTH: 16 NUCLEOTIDES  
76 (B) TYPE: NUCLEIC ACID  
77 (C) STRANDEDNESS: SINGLE  
78 (D) TOPOLOGY: LINEAR  
79 (ii) MOLECULE TYPE: Oligonucleotide  
80 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
81 TACAGTTGGT GCAGCA16  
82  
83 (2) INFORMATION FOR SEQ ID NO:5:  
84 (i) SEQUENCE CHARACTERISTICS:  
85 (A) LENGTH: 24 NUCLEOTIDES  
86 (B) TYPE: NUCLEIC ACID  
87 (C) STRANDEDNESS: SINGLE  
88 (D) TOPOLOGY: LINEAR  
89 (ii) MOLECULE TYPE: Oligonucleotide  
90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
91 GATGGATCCA GTTGGTGCAG CATC24  
92  
93 (2) INFORMATION FOR SEQ ID NO:6:  
94 (i) SEQUENCE CHARACTERISTICS:  
95 (A) LENGTH: 30 NUCLEOTIDES  
96 (B) TYPE: NUCLEIC ACID  
97 (C) STRANDEDNESS: SINGLE  
98 (D) TOPOLOGY: LINEAR  
99 (ii) MOLECULE TYPE: Oligonucleotide

27

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:44

INPUT SET: S34912.raw

100 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
101 CACGTCGACA TTCAGCTGAC CCAGTCTCCA 30  
102  
103 (2) INFORMATION FOR SEQ ID NO:7:  
104 (i) SEQUENCE CHARACTERISTICS:  
105 (A) LENGTH: 30 NUCLEOTIDES  
106 (B) TYPE: NUCLEIC ACID  
107 (C) STRANDEDNESS: SINGLE  
108 (D) TOPOLOGY: LINEAR  
109 (ii) MOLECULE TYPE: Oligonucleotide  
110 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
111 CGGAATTCAG GTNNANCTGC AGNAGTCWGG 30  
112  
113 (2) INFORMATION FOR SEQ ID NO:8:  
114 (i) SEQUENCE CHARACTERISTICS:  
115 (A) LENGTH: 28 NUCLEOTIDES  
116 (B) TYPE: NUCLEIC ACID  
117 (C) STRANDEDNESS: SINGLE  
118 (D) TOPOLOGY: LINEAR  
119 (ii) MOLECULE TYPE: Oligonucleotide  
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
121 CCAAGCTTG GTCCCCCTC CGAACGTG 28  
122  
123 (2) INFORMATION FOR SEQ ID NO:9:  
124 (i) SEQUENCE CHARACTERISTICS:  
125 (A) LENGTH: 39 NUCLEOTIDES  
126 (B) TYPE: NUCLEIC ACID  
127 (C) STRANDEDNESS: SINGLE  
128 (D) TOPOLOGY: LINEAR  
129 (ii) MOLECULE TYPE: Oligonucleotide  
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
131 GGCGTCGACT CACCATGGAC ATGAGGGTCC YCGCTCAGC 39  
132  
133 (2) INFORMATION FOR SEQ ID NO:10:  
134 (i) SEQUENCE CHARACTERISTICS:  
135 (A) LENGTH: 57 NUCLEOTIDES  
136 (B) TYPE: NUCLEIC ACID  
137 (C) STRANDEDNESS: SINGLE  
138 (D) TOPOLOGY: LINEAR  
139 (ii) MOLECULE TYPE: Oligonucleotide  
140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
141 GTCACCATCA CTTGCAAGTG CCAGCTGAGT GTAGGTTACA TGCACTGGTA CCAGCAG 57  
142  
143 (2) INFORMATION FOR SEQ ID NO:11:  
144 (i) SEQUENCE CHARACTERISTICS:  
145 (A) LENGTH: 54 NUCLEOTIDES  
146 (B) TYPE: NUCLEIC ACID  
147 (C) STRANDEDNESS: SINGLE  
148 (D) TOPOLOGY: LINEAR  
149 (ii) MOLECULE TYPE: Oligonucleotide  
150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
151 GCAACTTATT ACTGCTTTCA GGGGAGTGGG TACCCATTCA CGTTCGGAGG GGGG 54  
152

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:44

INPUT SET: S34912.raw

153 (2) INFORMATION FOR SEQ ID NO:12:  
154 (i) SEQUENCE CHARACTERISTICS:  
155 (A) LENGTH: 32 NUCLEOTIDES  
156 (B) TYPE: NUCLEIC ACID  
157 (C) STRANDEDNESS: SINGLE  
158 (D) TOPOLOGY: LINEAR  
159 (ii) MOLECULE TYPE: Oligonucleotide  
160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:  
161 GTGACCAACA TGGACCTGC TGATACTGCC AC 32  
162

163 (2) INFORMATION FOR SEQ ID NO:13:  
164 (i) SEQUENCE CHARACTERISTICS:  
165 (A) LENGTH: 29 NUCLEOTIDES  
166 (B) TYPE: NUCLEIC ACID  
167 (C) STRANDEDNESS: SINGLE  
168 (D) TOPOLOGY: LINEAR  
169 (ii) MOLECULE TYPE: Oligonucleotide  
170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:  
171 CCATGTTGGT CACTTTAAGG ACCACCTGG 29  
172

173 (2) INFORMATION FOR SEQ ID NO:14:  
174 (i) SEQUENCE CHARACTERISTICS:  
175 (A) LENGTH: 37 NUCLEOTIDES  
176 (B) TYPE: NUCLEIC ACID  
177 (C) STRANDEDNESS: SINGLE  
178 (D) TOPOLOGY: LINEAR  
179 (ii) MOLECULE TYPE: Oligonucleotide  
180 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:  
181 CCAGTTTACT AGTGT CATAG ATCAGGAGCT TAGGGGC 37  
182

183 (2) INFORMATION FOR SEQ ID NO:15:  
184 (i) SEQUENCE CHARACTERISTICS:  
185 (A) LENGTH: 37 NUCLEOTIDES  
186 (B) TYPE: NUCLEIC ACID  
187 (C) STRANDEDNESS: SINGLE  
188 (D) TOPOLOGY: LINEAR  
189 (ii) MOLECULE TYPE: Oligonucleotide  
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:  
191 TGACACTAGT AAAGTGGCTT CTGGGGTCCC ATCAAGG 37  
192

193 (2) INFORMATION FOR SEQ ID NO:16:  
194 (i) SEQUENCE CHARACTERISTICS:  
195 (A) LENGTH: 97 AMINO ACIDS  
196 (B) TYPE: AMINO ACID  
197 (D) TOPOLOGY: LINEAR  
198 (ii) MOLECULE TYPE: PROTEIN  
199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:  
200 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly  
201 5 10 15  
202  
203 Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Asn  
204 20 25 30  
205

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/158,120B

DATE: 03/01/2000  
TIME: 19:04:44

INPUT SET: S34912.raw

```

206 Ser Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
207                               35                               40                               45
208
209 Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr
210                               50                               55                               60
211
212 Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser
213                               65                               70                               75
214
215 Thr Ser Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp
216                               80                               85                               90
217
218 Thr Ala Val Tyr Tyr Cys Ala
219                               95
220
221 (2) INFORMATION FOR SEQ ID NO:17:
222 (i) SEQUENCE CHARACTERISTICS:
223 (A) LENGTH: 117 AMINO ACIDS
224 (B) TYPE: AMINO ACID
225 (D) TOPOLOGY: LINEAR
226 (ii) MOLECULE TYPE: PROTEIN
227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
228 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly
229                               5                               10                               15
230
231 Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys
232                               20                               25                               30
233
234 Asp Tyr Tyr Ile Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
235                               35                               40                               45
236
237 Glu Trp Ile Gly Trp Ile Asp Pro Glu Asn Gly Asn Thr Val Phe
238                               50                               55                               60
239
240 Asp Pro Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser
241                               65                               70                               75
242
243 Thr Ser Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp
244                               80                               85                               90
245
246 Thr Ala Val Tyr Tyr Cys Ala Tyr Tyr Gly Thr Ser Ser Phe Asp
247                               95                               100                               105
248
249 Phe Trp Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
250                               110                               115
251
252 (2) INFORMATION FOR SEQ ID NO:18:
253 (i) SEQUENCE CHARACTERISTICS:
254 (A) LENGTH: 117 AMINO ACIDS
255 (B) TYPE: AMINO ACID
256 (D) TOPOLOGY: LINEAR
257 (ii) MOLECULE TYPE: PROTEIN
258 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

```

INPUT SET: S34912.raw

## \*\*\*\*\* PREVIOUSLY ERRORED SEQUENCES - EDITED \*\*\*\*\*

43 (2) INFORMATION FOR SEQ ID NO:1:  
44 (i) SEQUENCE CHARACTERISTICS:  
45 (A) LENGTH: 27 BASE PAIRS  
46 (B) TYPE: NUCLEIC ACID  
47 (C) STRANDEDNESS: SINGLE  
48 (D) TOPOLOGY: LINEAR  
49 (ii) MOLECULE TYPE: Oligonucleotide  
50 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
51 AGCGGATCCA GGGGCCAGTG GATAGAC 27  
52

---

93 (2) INFORMATION FOR SEQ ID NO:6:  
94 (i) SEQUENCE CHARACTERISTICS:  
95 (A) LENGTH: 30 NUCLEOTIDES  
96 (B) TYPE: NUCLEIC ACID  
97 (C) STRANDEDNESS: SINGLE  
98 (D) TOPOLOGY: LINEAR  
99 (ii) MOLECULE TYPE: Oligonucleotide  
100 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
101 CACGTCGACA TTCAGCTGAC CCAGTCTCCA 30  
102

---

103 (2) INFORMATION FOR SEQ ID NO:7:  
104 (i) SEQUENCE CHARACTERISTICS:  
105 (A) LENGTH: 30 NUCLEOTIDES  
106 (B) TYPE: NUCLEIC ACID  
107 (C) STRANDEDNESS: SINGLE  
108 (D) TOPOLOGY: LINEAR  
109 (ii) MOLECULE TYPE: Oligonucleotide  
110 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
111 CGGAATTCAG GTNNANCTGC AGNAGTCWGG 30  
112

---

113 (2) INFORMATION FOR SEQ ID NO:8:  
114 (i) SEQUENCE CHARACTERISTICS:  
115 (A) LENGTH: 28 NUCLEOTIDES  
116 (B) TYPE: NUCLEIC ACID  
117 (C) STRANDEDNESS: SINGLE  
118 (D) TOPOLOGY: LINEAR  
119 (ii) MOLECULE TYPE: Oligonucleotide  
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
121 CCCAAGCTTG GTCCCCCTC CGAACGTG 28  
122

---

123 (2) INFORMATION FOR SEQ ID NO:9:  
124 (i) SEQUENCE CHARACTERISTICS:  
125 (A) LENGTH: 39 NUCLEOTIDES

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:45

INPUT SET: S34912.raw

126 (B) TYPE: NUCLEIC ACID  
127 (C) STRANDEDNESS: SINGLE  
128 (D) TOPOLOGY: LINEAR  
129 (ii) MOLECULE TYPE: Oligonucleotide  
130 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
131 GGCCTCGACT CACCATGGAC ATGAGGGTCC YCGCTCAGC 39  
132

---

133 (2) INFORMATION FOR SEQ ID NO:10:  
134 (i) SEQUENCE CHARACTERISTICS:  
135 (A) LENGTH: 57 NUCLEOTIDES  
136 (B) TYPE: NUCLEIC ACID  
137 (C) STRANDEDNESS: SINGLE  
138 (D) TOPOLOGY: LINEAR  
139 (ii) MOLECULE TYPE: Oligonucleotide  
140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
141 GTCACCATCA CTTGCAAGTG CCAGCTGAGT GTAGGTTACA TGCACTGGTA CCAGCAG 57  
142

---

143 (2) INFORMATION FOR SEQ ID NO:11:  
144 (i) SEQUENCE CHARACTERISTICS:  
145 (A) LENGTH: 54 NUCLEOTIDES  
146 (B) TYPE: NUCLEIC ACID  
147 (C) STRANDEDNESS: SINGLE  
148 (D) TOPOLOGY: LINEAR  
149 (ii) MOLECULE TYPE: Oligonucleotide  
150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
151 GCAACTTATT ACTGCTTTCA GGGGAGTGGG TACCCATTCA CGTTCGGAGG GGGG 54  
152

---

153 (2) INFORMATION FOR SEQ ID NO:12:  
154 (i) SEQUENCE CHARACTERISTICS:  
155 (A) LENGTH: 32 NUCLEOTIDES  
156 (B) TYPE: NUCLEIC ACID  
157 (C) STRANDEDNESS: SINGLE  
158 (D) TOPOLOGY: LINEAR  
159 (ii) MOLECULE TYPE: Oligonucleotide  
160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:  
161 GTGACCAACA TGGACCCTGC TGATACTGCC AC 32  
162

---

163 (2) INFORMATION FOR SEQ ID NO:13:  
164 (i) SEQUENCE CHARACTERISTICS:  
165 (A) LENGTH: 29 NUCLEOTIDES  
166 (B) TYPE: NUCLEIC ACID  
167 (C) STRANDEDNESS: SINGLE  
168 (D) TOPOLOGY: LINEAR  
169 (ii) MOLECULE TYPE: Oligonucleotide  
170 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:  
171 CCATGTTGGT CACTTTAAGG ACCACCTGG 29  
172

---

173 (2) INFORMATION FOR SEQ ID NO:14:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:46

INPUT SET: S34912.raw

174 (i) SEQUENCE CHARACTERISTICS:  
175 (A) LENGTH: 37 NUCLEOTIDES  
176 (B) TYPE: NUCLEIC ACID  
177 (C) STRANDEDNESS: SINGLE  
178 (D) TOPOLOGY: LINEAR  
179 (ii) MOLECULE TYPE: Oligonucleotide  
180 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:  
181 CCAGTTTACT AGTGT CATAG ATCAGGAGCT TAGGGGC 37  
182

---

183 (2) INFORMATION FOR SEQ ID NO:15:  
184 (i) SEQUENCE CHARACTERISTICS:  
185 (A) LENGTH: 37 NUCLEOTIDES  
186 (B) TYPE: NUCLEIC ACID  
187 (C) STRANDEDNESS: SINGLE  
188 (D) TOPOLOGY: LINEAR  
189 (ii) MOLECULE TYPE: Oligonucleotide  
190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:  
191 TGACACTACT AAAGTGGCTT CTGGGGTCCC ATCAAGG 37  
192

---

371 (2) INFORMATION FOR SEQ ID NO:22:  
372 (i) SEQUENCE CHARACTERISTICS:  
373 (A) LENGTH: 117 NUCLEOTIDES  
374 (B) TYPE: NUCLEIC ACID  
375 (C) STRANDEDNESS: SINGLE  
376 (D) TOPOLOGY: LINEAR  
377 (ii) MOLECULE TYPE: Oligonucleotide  
378 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:  
379 CCATGGACTG GACCTGGAGG GTCTTCTGCT TGCTGGCTGT AGCACCAGGT GCCCACTCCC 60  
380 AGGTGCAGCT GGTGCAGTCT GGAGCTGAGG TGAAGAAGCC TGGAGCCTCA GTGAAGG 117  
381

---

382 (2) INFORMATION FOR SEQ ID NO:23:  
383 (i) SEQUENCE CHARACTERISTICS:  
384 (A) LENGTH: 120 NUCLEOTIDES  
385 (B) TYPE: NUCLEIC ACID  
386 (C) STRANDEDNESS: SINGLE  
387 (D) TOPOLOGY: LINEAR  
388 (ii) MOLECULE TYPE: Oligonucleotide  
389 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:  
390 CACTTCTTCG GACCTCGGAG TCACTTCCAA AGGACGTTCC GTAGACCTAA GTTGTAATTC 60  
391 CTGATGATGT AAATGACCCA CGCTGTCCGA GGACCTGTTC CCGAGCTCAC CTACCCAACC 120  
392

---

393 (2) INFORMATION FOR SEQ ID NO:24:  
394 (i) SEQUENCE CHARACTERISTICS:  
395 (A) LENGTH: 119 NUCLEOTIDES  
396 (B) TYPE: NUCLEIC ACID  
397 (C) STRANDEDNESS: SINGLE  
398 (D) TOPOLOGY: LINEAR  
399 (ii) MOLECULE TYPE: Oligonucleotide  
400 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:



RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:46

INPUT SET: S34912.raw

401 GGGCTCGAGT GGATGGGTTG GATTGACCCT GAGAATGGTA ATACTGTGTT TGACCGAAGT 60  
402 TCCAGGGCAG AGTCACCATG ACCAGGGACA CGTCCACGAG CACAGTCTAC ATGGAGCTG 119  
403

---

404 (2) INFORMATION FOR SEQ ID NO:25:

405 (i) SEQUENCE CHARACTERISTICS:

406 (A) LENGTH: 137 NUCLEOTIDES

407 (B) TYPE: NUCLEIC ACID

408 (C) STRANDEDNESS: SINGLE

409 (D) TOPOLOGY: LINEAR

410 (ii) MOLECULE TYPE: Oligonucleotide

411 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

412 GGTGCTCGTG TCAGATGTAC CTCGACTCGT CGGACTCTAG ACTCCTGTGC CGGCACATAA 60

413 TGACACGCAT GATGCCATGT TCGAGGAAAC TGAAGACCCC GGTTCCTGG TGAGAGTGTG 120

414 ACTCGAGTAT TCCTAGG 137

415

---

416 (2) INFORMATION FOR SEQ ID NO:26:

417 (i) SEQUENCE CHARACTERISTICS:

418 (A) LENGTH: 106 NUCLEOTIDES

419 (B) TYPE: NUCLEIC ACID

420 (C) STRANDEDNESS: SINGLE

421 (D) TOPOLOGY: LINEAR

422 (ii) MOLECULE TYPE: Oligonucleotide

423 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

424 CCATGGACAT GAGGGTCCCC GCTCAGCTCC TGGGGCTCCT GCTGCTCTGG CTCCCAGGTG 60

425 CCAAATGTGA TATCCAGATG ACCCAGTCTC CTTCCACCCT GTCTGC 106

426

---

427 (2) INFORMATION FOR SEQ ID NO:27:

428 (i) SEQUENCE CHARACTERISTICS:

429 (A) LENGTH: 107 NUCLEOTIDES

430 (B) TYPE: NUCLEIC ACID

431 (C) STRANDEDNESS: SINGLE

432 (D) TOPOLOGY: LINEAR

433 (ii) MOLECULE TYPE: Oligonucleotide

434 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

435 GTCAGAGGAA GGTGGGACAG ACGTAGACAT CCTCTGTCTC AGTGGTAGTG AACGTTCCGC 60

436 TCAGTCCTGT AATTATCCAT AAATTTGACC ATGGTCGTCT TTGGGCC 107

437

---

438 (2) INFORMATION FOR SEQ ID NO:28:

439 (i) SEQUENCE CHARACTERISTICS:

440 (A) LENGTH: 107 NUCLEOTIDES

441 (B) TYPE: NUCLEIC ACID

442 (C) STRANDEDNESS: SINGLE

443 (D) TOPOLOGY: LINEAR

444 (ii) MOLECULE TYPE: Oligonucleotide

445 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

446 GAAAGCCCCT AAGCTCCTGA TCTATCGTGC AAACAGATTG GTAGATGGGG TCCCATCAAG 60

447 GTTCAGCGGC AGTGGATCTG GGACAGAATT CACTCTCACC ATCAGCA 107

448

---

449 (2) INFORMATION FOR SEQ ID NO:29:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:46

INPUT SET: S34912.raw

450 (i) SEQUENCE CHARACTERISTICS:  
451 (A) LENGTH: 116 NUCLEOTIDES  
452 (B) TYPE: NUCLEIC ACID  
453 (C) STRANDEDNESS: SINGLE  
454 (D) TOPOLOGY: LINEAR  
455 (ii) MOLECULE TYPE: Oligonucleotide  
456 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:  
457 GTCTTAAGTG AGAGTGGTAG TCGTCGGACG TCGGACTACT AAAACGTTGA ATAATGACGG 60  
458 ATGTCAAAGT ACTCAAAGGC ATGTGCAAGC CTCCCCCTG GTTCGAAC TT TATTTT 116  
459

---

641 (2) INFORMATION FOR SEQ ID NO:36:  
642 (i) SEQUENCE CHARACTERISTICS:  
643 (A) LENGTH: 63 NUCLEOTIDES  
644 (B) TYPE: NUCLEIC ACID  
645 (C) STRANDEDNESS: SINGLE  
646 (D) TOPOLOGY: LINEAR  
647 (ii) MOLECULE TYPE: Oligonucleotide  
648 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:  
649 GCCTGAGCTC ACGGTGACCG TGGTCCCGCC GCCCAGACA TCGAAGTAGC AGTTCGTGAT CAT 63  
650

---

651 (2) INFORMATION FOR SEQ ID NO:37:  
652 (i) SEQUENCE CHARACTERISTICS:  
653 (A) LENGTH: 79 NUCLEOTIDES  
654 (B) TYPE: NUCLEIC ACID  
655 (C) STRANDEDNESS: SINGLE  
656 (D) TOPOLOGY: LINEAR  
657 (ii) MOLECULE TYPE: Oligonucleotide  
658 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:  
659 GTTGGTGACT TTAAGGACCA CCTGGTTTTT GGAGGTATCC TTGGAGATTG TGAGCCGGCT 60  
660 CTTCAGCCAT GGATTATAG 79  
661

---

662 (2) INFORMATION FOR SEQ ID NO:38:  
663 (i) SEQUENCE CHARACTERISTICS:  
664 (A) LENGTH: 89 NUCLEOTIDES  
665 (B) TYPE: NUCLEIC ACID  
666 (C) STRANDEDNESS: SINGLE  
667 (D) TOPOLOGY: LINEAR  
668 (ii) MOLECULE TYPE: Oligonucleotide  
669 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:  
670 GCGCCTTCCC TGGGGGCTGA CGAATCCAGC CTACACTCAT ACCAGAAGTG CTCAGTGAAA 60  
671 ACCCAGAGAA GGTGGAGGTC AGTGTGAGG 89  
672

---

673 (2) INFORMATION FOR SEQ ID NO:39:  
674 (i) SEQUENCE CHARACTERISTICS:  
675 (A) LENGTH: 70 NUCLEOTIDES  
676 (B) TYPE: NUCLEIC ACID  
677 (C) STRANDEDNESS: SINGLE  
678 (D) TOPOLOGY: LINEAR  
679 (ii) MOLECULE TYPE: Oligonucleotide

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/158,120BDATE: 03/01/2000  
TIME: 19:04:47

INPUT SET: S34912.raw

680 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:  
681 CCAGGTCACC TTAAGGGAGT CTGGTCCTGC GCTGGTGAAA CCCACACAGA CCCTCACACT 60  
682 GACCTGCACC 70  
683

---

684 (2) INFORMATION FOR SEQ ID NO:40:

685

686 (i) SEQUENCE CHARACTERISTICS:

687 (A) LENGTH: 78 NUCLEOTIDES

688 (B) TYPE: NUCLEIC ACID

689 (C) STRANDEDNESS: SINGLE

690 (D) TOPOLOGY: LINEAR

691 (ii) MOLECULE TYPE: Oligonucleotide

692 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

693 CAGCCCCCAG GGAAGGCCCT GGAGTCGCTT GCAGACATTT GGTGGGATGA CAAAAAGGAC 60

694 TATAATCCAT CCCTGAAG 78  
695

---

696 (2) INFORMATION FOR SEQ ID NO:41:

697 (i) SEQUENCE CHARACTERISTICS:

698 (A) LENGTH: 64 NUCLEOTIDES

699 (B) TYPE: NUCLEIC ACID

700 (C) STRANDEDNESS: SINGLE

701 (D) TOPOLOGY: LINEAR

702 (ii) MOLECULE TYPE: Oligonucleotide

703 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

704 GGTCCTTAAA GTGACCAACA TGGACCCTGC TGATACTGCC ACTTACTACT GTGCTCGGTC 60

705 TATG 64  
706

---

707 (2) INFORMATION FOR SEQ ID NO:42:

708 (i) SEQUENCE CHARACTERISTICS:

709 (A) LENGTH: 72 NUCLEOTIDES

710 (B) TYPE: NUCLEIC ACID

711 (C) STRANDEDNESS: SINGLE

712 (D) TOPOLOGY: LINEAR

713 (ii) MOLECULE TYPE: Oligonucleotide

714 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

715 GGCGTCGACT CACCATGGAC TGGACCTGGA GGGTCTTCTG CTTGCTGGCT GTAGCACCAG 60

716 GTGCCCACTC CC 72  
717

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION    *US/09/158,120B***

DATE: 03/01/2000  
TIME: 19:04:47

***INPUT SET: S34912.raw***

Line	Error	Original Text
25	Wrong Classification	(C) CLASSIFICATION: 424